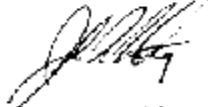




U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL WEATHER SERVICE
Silver Spring, Md. 20910

MEMORANDUM FOR: All NWS Regional Headquarters, Regional
Maintenance Specialists, Electronic Systems
Analysts, and Electronics Technicians [Engineering
Handbook (EHB)-13, Series II Distribution]

FROM: W/OPS1 - John McNulty 

SUBJECT: Transmittal Memorandum for EHB-13, Series II

1. Material Transmitted:

Engineering Handbook No. 13 Series II, Advanced Weather
Interactive Processing System (AWIPS), Section 3.1, AWIPS
Software Installation Instruction Note 22, AWIPS Release 5.1.2
Installation Instructions

2. Summary:

AWIPS Software Installation Instruction Note 22 provides
installation instructions for Release 5.1.2.

3. Effect on Other Instructions:

File this note in EHB-13, Series II, section 3.1. Discard all
previous software installation instructions in section 3.1.



AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 22

(for Electronic Systems Analysts)

Maintenance, Logistics, & Acquisition Division

W/OPS12: FJZ

- SUBJECT** : Maintenance Release 5.1.2 Installation Kit
- PURPOSE** : To provide R5.1.2 software upgrade installation instructions and information.
- AFFECTED SITES** : All National Weather Service CONUS and OCONUS WFO and offices with WFO type AWIPS systems. Offices must install R5.1.2. As a prerequisite, at least R5.1.1 must be installed. R5.1.1.1 does not need to be installed before the R5.1.1 upgrade.
- PREINSTALLATION: REQUIREMENTS** : CONUS and OCONUS WFOs and offices with WFO type systems **must** install R5.0 IFPS and R5.1.1 IFPS before installing R5.1.2.
- AUTHORIZATION** : The authority for this modification is NWS Request for Change NWS613.
- VERIFICATION STATEMENT** : These installation procedures were tested and verified at Silver Spring, MD (NMTW and NMTR), Southern Region Headquarters (EHU), Central Region Headquarters (BCQ), Eastern Region Headquarters (VUY), Pacific Region Headquarters (PBP), RFC Kansas City, MO (KRF), WFO Lubbock, TX (LUB), WFO Kansas City, MO (EAX), WFO Pittsburgh, PA (PBZ), and WFO Boston, MA (BOX).
- TIME REQUIRED** : WFO installation time Part 1-11 (see Attachment B, Installation Instructions for AWIPS R.5.1.2) is approximately 9 hours, with 3 to 4 hours ingest down time. RFC installation time is approximately 8 hours, with 3 to 4 hours ingest down time. Sites without Linux systems must skip Part 9 (see Attachment B, Installation Instructions for AWIPS R.5.1.2).
- SECURITY LEVEL** : root
- EFFECT ON OTHER: INSTRUCTIONS** : None.
- TECHNICAL SUPPORT** : For questions or problems regarding the upgrade, call the NCF at (301) 713-9344.

GENERAL:

The R5.1.2 installation upgrade kit includes: installation instructions, 4 CDs for WFOs, 3 CDs for RFCs, release notes, and script log output (with error information). The length of ingest downtime requires sites to perform service backup. R5.1.2 localization/customization problems will be similar to those experienced in the R5.1.1 upgrade.

- NOTE:**
1. R5.1.1 **must** be installed prior to installing R5.1.2.
 - a. CONUS WFO sites and WFO type systems, without R5.0 IFPS and R5.1.1 IFPS installed, will **not** be able to install R5.1.2.
 - b. OCONUS WFO sites shall install all R5.1.2 software.
 - c. LINUX Workstation Upgrade (Part 9 [see Attachment B, Installation Instructions for AWIPS R.5.1.2]) can only be performed if:
 - (1) Red Hat 7.1 is running on the LINUX system.
 - (2) the workstations are assigned as lx1 or lx2.
 2. Sites **must** coordinate the R5.1.2 installation with their regional or NCEP Center AWIPS focal point. COMT, the Training Center, systems at WSH, and the OSF should schedule their upgrade with Frank Lucadamo at WSH.
 3. Adhere to the guidelines outlined below.
 4. AWIPS regional focal points **must** coordinate the R5.1.2 installation at www.visto.com.

AWIPS remote displays (ARD) cannot be logged into AWIPS during this install. Sites must coordinate with their CWSUs before initiating the R5.1.2 upgrade. As noted above, the R5.1.2 upgrade must be coordinated with the appropriate personnel. Avoid the following scenarios:

- Sites and their backups **must not** perform simultaneous software upgrades.
- Weather wire uplink sites and their backups **must not** perform simultaneous software upgrades.

General installation guidelines:

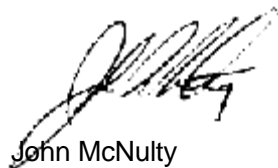
- NCF/PRC upgrade support is available from 7AM and 7PM EDT, Monday through Thursday.
- S On Thursdays, OCONUS sites can receive upgrade assistance outside of the set support hours. These OCONUS sites, however, must pre-coordinate this through their regional focal point. If the NCF/PRC are not advised ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.
- Five sites shall be upgraded per day; scheduled in the AWIPS time-frame noted above.
- All R5.1.2 upgrades shall be completed by the end of February 2002.

Review these instructions before performing the upgrade. It is important to begin with Part 0, the Pre-installation Requirements (see Attachment B, Installation Instructions for AWIPS R.5.1.2), several days to a week. If any of these instructions require further clarification, call the NCF.

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information
5	Description	Upgrade AWIPS Software to R5.1.2 I.A.W. AWIPS Software Installation Instruction Note 22
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgraded AWIPS System Software to R5.1.2 I.A.W. AWIPS Software Installation Instruction Note 22
17a	Mod. No.	S22



John McNulty
Chief, Maintenance, Logistics, and Acquisition Division

Attachment A - WS Form A-26 Sample

Attachment B - Installation Instructions for AWIPS R5.1.2, Sample Output, and Release Notes.

Attachment A

WS Form A-26 Sample

ATTACHMENT A

WS FORM A-26 (4/94)		WS FORM A-26 (4/94)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number G 49978					
ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD															
General Information		1. Open Date 7 / 25 / 01		Time 0900		2. Initials JMM		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date 7 / 25 / 01		Time 1900			
5. Description		Upgrade AWIPS Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19													
Equipment Information		6. Station ID FFC		7. Equipment Code AWIPS		8. Serial Number 001		9. TM M		10. AT M		11. How Mal. 999			
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>		b. Logistics Delay <input type="text"/>		Partly Operational		c. All Other <input type="text"/>		d. Logistics Delay <input type="text"/>		Not Operational <input type="text"/>		e. All Other <input type="text"/>	
13. Parts Failure Information														14. Work Load Information	
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type		Staff Hrs.					
1								a. Routine							
2								b. Non-routine							
3								c. Travel							
4								d. Misc.		10:00					
5								e. Overtime							
Miscellaneous Information		15. Maintenance Comments Upgraded AWIPS System Software to Build 5.1.1 I.A.W. AWIPS Software Installation Instruction Note 19										16. Initials JMM			
17. SPECIAL PURPOSE REPORTING		a. Mod. No. S19		b. Mod./Act./Deact.Date 7/25/01		c.		d.		e.					
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)				Serial Number (Old Part)		Serial Number (New Part)					

Attachment B

Installation Instructions for AWIPS Release 5.1.2